

PATENT ABSTRACTS OF JAPAN

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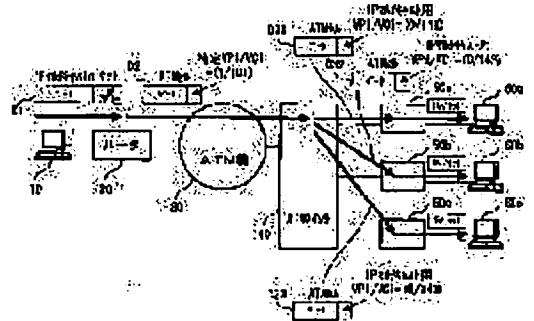
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(54) IP MULTICAST COMMUNICATION SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To more efficiently realize an IP multicast function while suppressing an increase in the loads of a router and an exchange and a decrease in line throughput within a network.

SOLUTION: An IP and ATM multicast correspondence router 20 converts an IP multicast packet D1 transmitted from an IP multicast correspondence transmission server 10 into an ATM cell D2 and transmits the ATM cell D2 to an ATM switch 40 through one path having a particular VPI/VCI (virtual path identifier/virtual channel identifier) value in an ATM network 30. The ATM switch 40 duplicates the ATM cell D2 received through the path having the particular VPI/VCI value as many as a number that corresponds to destination receiving clients 60a, 60b and 60c, and transmits each of the duplicated ATM cells D31, D32 and D33 to network devices 50a, 50b and 50c through the path with a VPI/VCI value for multicast allocated in accordance with the particular VPI/VCI value.



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